Quarterly Project Status October 24, 2007

Vashon-Maury Island
Water Resources Evaluation



- Ongoing monitoring overview
- WRE report update
- Modeling update
- Budget
- Next Quarter



- Precipitation & Stream gauging
 - Telemetry coming soon
- WL survey done in July/August
 - 24 sites
- Stream WQ sampling
 - 7 sites
 - Sampling ends in December
- Exempt well metering
 - Next slide



Range of averaged daily usage from April – September 18.2 to 815.9 GPD (gallons per day)

Monthly Averages:

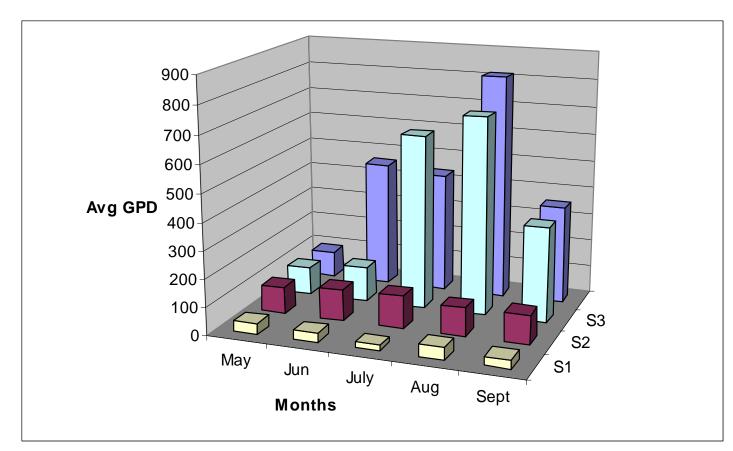
May: 122.8

June: 232.1

July: 337.8

Aug: 326.3

Sept: 231.6





- Water Quality monitoring (July-August)
 - Environmental indicators at 19 long-term sites
 - Arsenic, Chloride and Nitrate+Nitrite
 - Baseline parameters at monitoring wells
 - Inorganics, Nutrients & Metals
 - CI, F, SO4, Si, Tot P, Tot N, N+N, NH3, Ortho P plus metals
 - Only 3 sites sampled due to sediment problems

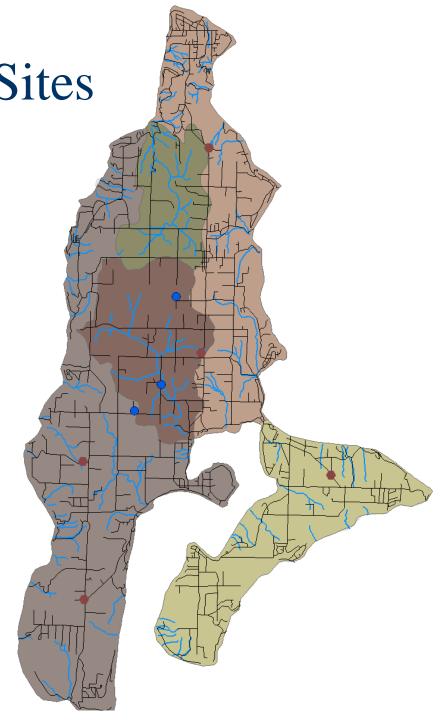


- Proposing 4 MW locations
 - 1 site in the Qvr/Qal
 - Within Judd Creek
 - Location off 111th Ave SW
 - 1 site in Deeper Units
 - Estimated depth to ~300+ feet
 - Location at Valley Center Park-n-Ride
 - -2 sites in the Qva
 - Both within Judd Creek basin, north and south
- Map (next slide)



Proposing 4 locations:

- 1. Qvr/Qal
 - -off 111th Ave SW
- 2. Deeper Units
 - -Valley Center P-n-R
- 3. Qva
 - -off SW 188th St
 - -Island Center Forest Area
- 4. Qva
 - -off SW 220th St
 - -Paradise Ridge Park?





- Next report
 - Workplan update almost complete
- Completed
 - Final report to Ecology on Watershed Grant activities
 - WRE Data Reports
 - Available via the web

http://dnr.metrokc.gov/wlr/wq/vashon-island/index.htm



- Working on Next Steps
- Scenarios to follow
- Timeline:
 - Next Steps: November/December
 - Scenarios: after completion of the Next Steps



- Population growth effects of increased pumping (no new wells).
- Summer low flow effects of withdrawals focused on May-October (no new wells).
- Climate Change effects of changing rainfall and temperature on recharge.
- Build-Out New exempt wells
 - Utilizing Bob Powell's build-out for locations
 - Draft VMI Green Print Focus Areas



- Project budget for 2007 is \$314,479
 - expenditures to date: \$198,308
 - -63% of budget
- Future expenditures
 - Additional Monitoring wells ~ \$100K
 - Activity scheduled for November

Next Quarter

- Continued activities
 - Gauging/monitoring
 - New MW wells
 - Modeling

